IN THE CLAIMS:

This listing of the claims will replace all prior versions and listing of the claims in the present application:

1. (Currently Amended.) A method of treating an intestinal damage comprising administering a pharmaceutically active formulation of PYY or a PYY agonist to a ~~subject~~ human to treat the intestinal damage.

2. (Previously Presented.) The method of claim 1 wherein the intestinal damage is associated with a condition selected from the group consisting of inflammatory bowel disease, bowel atrophy, loss of bowel mucosa, and loss of bowel mucosal function.

3. (Previously Presented.) The method of claim 2 wherein the inflammatory bowel disease is ulcerative colitis.

4. (Cancelled.)

5. (Previously Presented.) The method of claim 1 wherein the intestinal damage is caused by an event selected from the group consisting of exposure to cytotoxic agents, radiation, toxicity, infection and an injury.

6. (Previously Presented.) The method of claim 1, wherein the PYY or the PYY agonist is used in conjunction with a cytotoxic agent or radiation.

7. (Withdrawn.) The method of claim 1 further comprising administering a growth hormone.

8. (Previously Presented.) The method of claim 1 further comprising administering an anti-inflammatory agent.

9. (Previously Presented.) The method of claim 8 wherein the anti-inflammatory agent is selected from the group consisting of tacrolimus, mycophenolate mofetil, anti-tumor necrosis factor antibody, interleukin-10, interleukin-11, anti-interleukin-12 antibody, anti-inlerleukin-1 antibody, anti-alpha4 integrin antibody, and nicotine.

10. (Previously Presented.) The method of claim 1 wherein the PYY or the PYY agonist is administered by a route selected from the group consisting of intravenous, intraperitoneal, subcutaneous, intramuscular, oral, rectal, topical, transmucosal, nasal, or pulmonary inhalation.

11. (Previously Presented.) The method of claim 1 wherein the PYY or the PYY agonist is administered in the amount of about 100 μg to about 500 mg/day.

12. (Previously Presented.) The method of claim 1 wherein the PYY or the PYY agonist is administered in the amount of about 500 μg to 100 mg/day.

13. (Cancelled.)

14. (Previously Presented.) The method of claim 1 wherein the PYY agonist is PYY[3-36].

15. (Withdrawn.) A probiotic bacterium comprising a nucleic acid encoding PYY or a PYY agonist.

16. (Withdrawn.) The probiotic bacterium of claim 15 wherein the bacteria expresses and secretes the PYY or the PYY agonist.

17. (Withdrawn.) The probiotic bacterium of claim 15 wherein the bacterium is a lactobacillus bacterium.

18. (Withdrawn.) The probiotic bacterium of claim 15 wherein the PYY agonist is PYY[3-36].

19. (Withdrawn.) A method of treating a bowel condition comprising administering the probiotic bacterium of claim 15 to a patient.

20. (Withdrawn.) The method of claim 19 wherein the probiotic bacterium is administered by oral ingestion or suppository.

21. (Withdrawn.) The method of claim 19 wherein the bowel condition comprises intestinal damage.